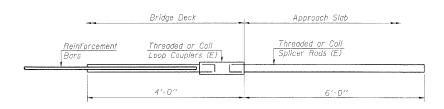
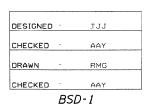
BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM

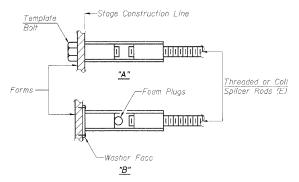


FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

		Splicer			
MIN.	Capacity	= 23,0	KIPS -	tension	
Min.	Pull-out	Strength	r = 12.3	3 kips -	tension

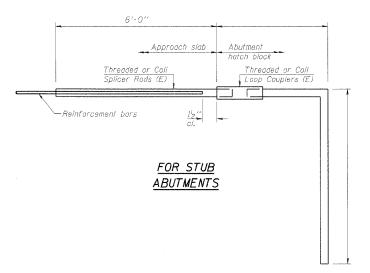


10 - 1 - 08



INSTALLATION AND SETTING METHODS

"A" ; Set bar splicer assembly by means of a template bolt, "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



Min,	Capacity = 23.0 kips - tension
Min	Pull-out Strength = 12.3 kips - tension

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for

reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity
(Tension in kips) = 1.25 x fy x A_t

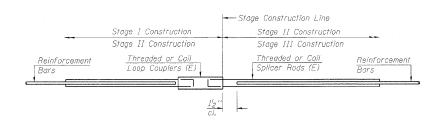
Minimum *Pull-out Strength = 0.66 x fy x A_t
(Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

A₁ = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

	BAR SPLTC	ER ASSEMBLI	FS		
		Strength Requirements			
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension		
#4	1'-8''	14.7	7.9		
#5	2'-2"	23.0	12.3		
#6	2'-7"	33.1	17.4		
#7	3′-5″	45.1	23.8		
#8	4'-6''	58.9	31.3		
#9	5′-9′′	75.0	39.6		
#10	7'-3''	95.0	50,3		
#11	9'-0''	117.4	61.8		



STANDARD

Bar Size	No. Assemblies Required	Location
#5	8	Deck
#6	3	Deck

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 022-0092

benesch ** company Engineers - Surveyors - Planners Okto North Michigan Avenue. Suite 2400 Chicago, Illinois 60601 312-655-0460 Job No. 10050

SHEET NO.10	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290 355	22(1, 1-1, 2&3)RS-7	DUPAGE	546	375
10 SHEETS	CONTRACT NO. 60G51				
FED. I		AD DIST. NO. ILLINOIS FED. A	ID PROJECT		